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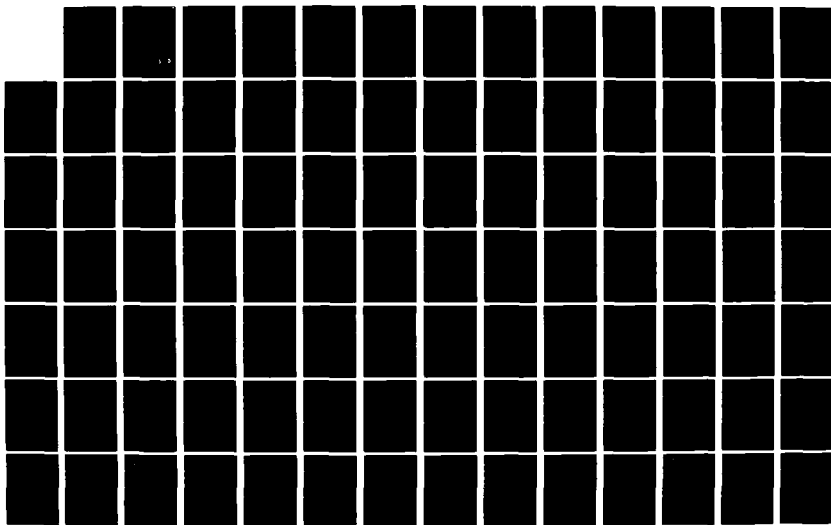
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS-41C FIRE
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AFB TX ENGLISH LANGUAGE CENTER. 31 JAN 77

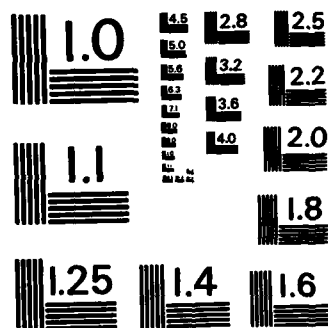
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JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR 41C

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FIRE CONTROL INSTRUMENT REPAIRMAN

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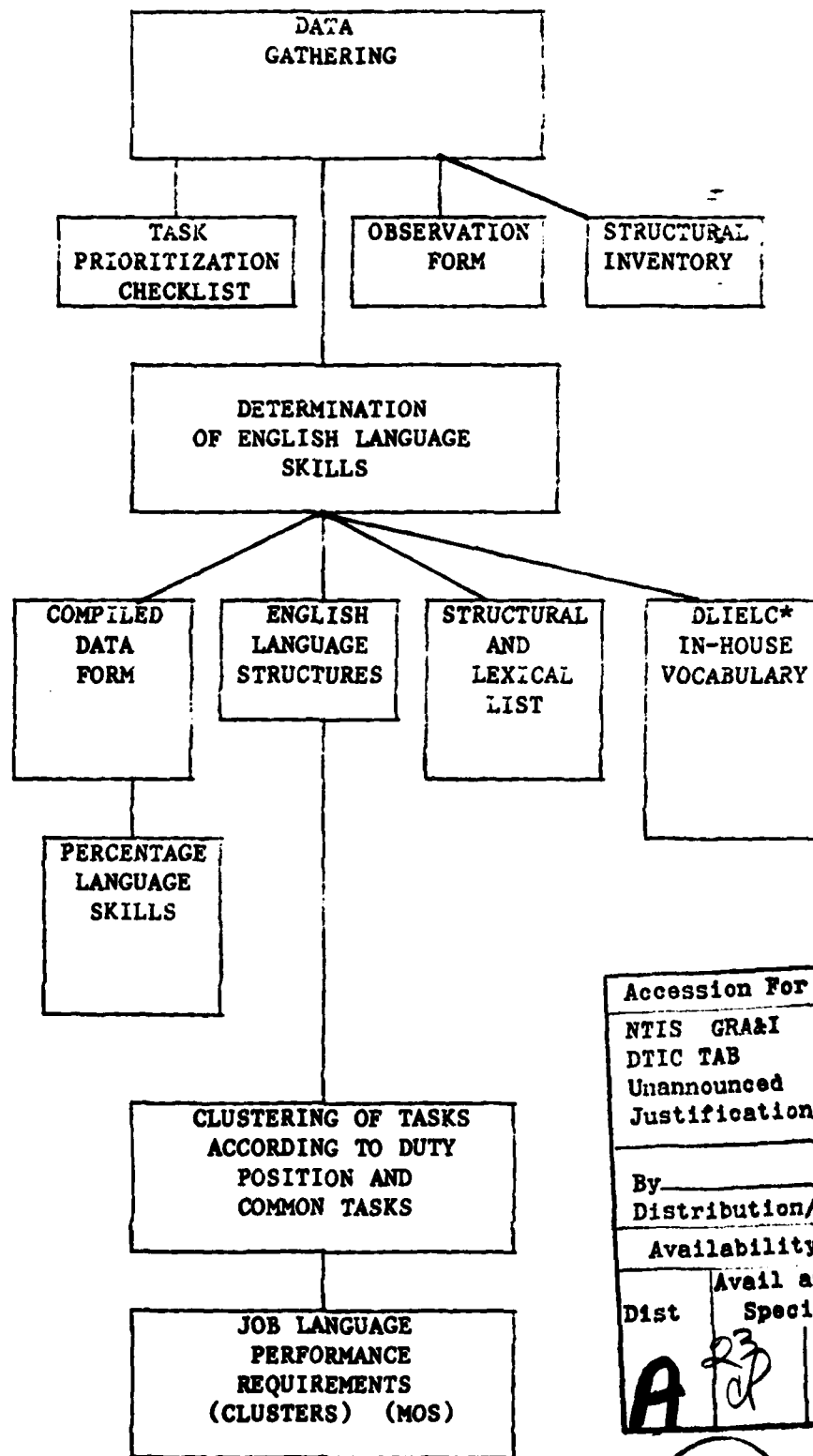
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Job Language Performance Requirements (JLPR) study was conducted to determine language tasks the soldier must do in studying/performing job tasks. The language skills (listening, reading, writing, speaking) required to learn each Army job task were identified, conditions studied and standards determined. The data that generated the JLPR is identified.		



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FIGURE 1

*Defense Language Institute English Language Center

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PREFACE

INSTRUCTIONS FOR REVIEW OF JOB LANGUAGE PERFORMANCE REQUIREMENTS

This report is organized in six main sections. Sections I-IV discuss methods, forms and rationale for gathering, organizing and analyzing research data used to develop Job Language Performance Requirements (JLPR). Please look through these sections to get a general understanding of the background underlying the JLPR. Sections V and VI are the major substantive portions of the analysis. They are the results of the analysis and constitute the basis for development of any MOS-oriented English language materials. Section V contains the JLPR by cluster/topic, while Section VI contains the JLPR covering the entire range of clusters/topics.

The appendices, one through eight, contain all the information used to determine the Job Language Performance Requirements. Please write any suggestions or changes directly on the document or attach additional notes, if necessary.

The points covered in the six major sections are supported in greater detail in eight appendices. Below is an overview of these appendices.

Appendix one contains the Task Prioritization Checklist. It was taken to the field to collect the raw data. This form was approved for use by the Department of the Army.

Appendix two contains the Task Inventory Compiled Data Form. It was used to organize data from Unit and AIT respondents.

Appendix three defines the language skills by percentage. This form includes computations of language skills for each task cluster.

Appendix four contains the Observation Form used in the recording of types of listening and speaking skills required, as seen by observers, in the learning and performing of a task. The variety of environmental situations is also included on this form.

Appendix five contains the final list of structural and lexical items found through data gathering and organization.

Appendix six contains the DLIELC in-house vocabulary list. This is a task by task listing of the vocabulary extracted from the Soldier's Manual.

Appendix seven contains the machine-generated vocabulary for this MOS prepared by the United States Army Training and Doctrine Command (TRADOC), Fort Monroe, Virginia.

Appendix eight contains the list of structural and lexical items requisite to this MOS.

Thank you for your cooperation. It is greatly appreciated.

SECTION I

DATA GATHERING

INTRODUCTION

This section discusses the procedures and forms in the gathering of data used to determine the Job Language Performance Requirements for this MOS.

SECTION I: DATA GATHERING

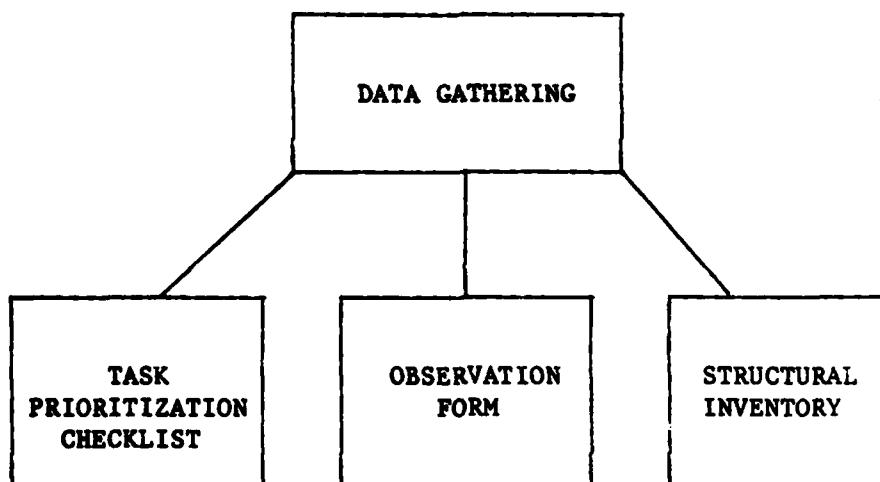


FIGURE 2

In order to establish Job Language Performance Requirements for this MOS the curriculum development specialists at the Defense Language Institute English Language Center (DLIELC) analyzed the current learning and working situations, and individual tasks. The goal was to collect data which would help identify the Job Language Performance Requirements pertinent to this MOS.

To conduct this analysis, training specialists visited the AIT School and Unit cadre. Interviews were conducted using a Task Prioritization Checklist, (Appendix 1). For each task, first-line supervisors answered the following questions:

1. Is the task taught?
2. How is the task taught?
3. Is the task tested?
4. How is the task tested?
5. How important are speaking, listening, reading and writing in learning and performing the task?
6. What are the results of poor performance in performing the task.

Additional data were gathered through use of an Observation Form and an analysis of language structures in the Soldier's Manual for this MOS.

The Observation Form (Appendix 4) was used to record actual observations of-the learning situations, populations, tasks, and language.

The lexical and structural analysis was done by a panel of language specialists who first listed all structures found in the Soldier's Manual for this MOS and then all structures, standard and non-standard, noted on the Observation Forms for all vocabulary from the Soldier's Manual. All lists were then combined into an overall lexical and structural inventory.

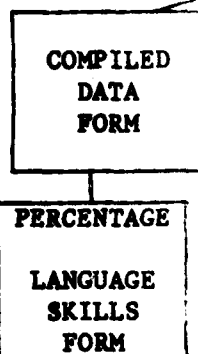
SUMMARY/CONCLUSION:

The tools for data gathering were:

1. The Task Prioritization Checklist (Appendix 1)
2. The Task Inventory Compiled Data Form (Appendix 2)
3. The Observation Form (Appendix 4)
4. A Structural and Lexical Inventory (consisting of rough drafts of all vocabulary and structures in this MOS).

These tools were used to form the data pool from which the Job Language Requirements were determined.

SECTION II: DETERMINATION OF



The raw data collected determine the English Language and perform the task. The Cize the observation and anal Prioritization Checklist was three variables were used to were:

1. Methods of teaching.
2. Methods of testing.
3. The actual respondents

From each of the three va

discusses the of the raw data information used to the English language to this MOS.

VARIABLE
- Methods of Teaching demonstration lecture hands on self-paced

Methods of Testing performance oral written	listening speaking writing, reading
Rating of English Language Skills listening speaking reading writing	*a response of 2 or 3 on a scale of 1 to 3 was tallied a response of 1, 2, or 3 on a scale of 1 to 5 was tallied

*See A1

In order to determine the relations of the various skills in the MOS, data from the three variables were tallied on the Percentage Language Skills Form. An average was then found using the following formula:

$$TR \div TxVxR = \% \text{ of use}$$

T = total number of tasks per cluster

V = language skill variable per cluster**

R = maximum number of respondents in any task in that cluster

TR = total tally of responses per task per skill

% of use = use of the language skill in the task

Percentages found in this MOS were:

Listening	47%
Speaking	28%
Reading	29%
Writing	28%

As shown by the figures, listening is the most important skill in this MOS. However, in particular duty sections, percentages varied. Appendix 3, the Percentage Language Skills Form, shows the actual skill percentages in each duty position.

**See A3

Organization of structural and lexical items was done by comparing a structural and lexical list extracted from the Soldier's Manual with a structural inventory list extracted from ALC (American Language Center) materials through Volume 2400, at the end of which a trainee is normally qualified for Specialized English Technical Terminology training. By comparing the lists redundancies were eliminated, leaving the final list of structural and lexical items indicated by grammatical title in Appendix 5. -

SUMMARY/CONCLUSION:

Organization of the data included the recording of responses on the Task Inventory Compiled Data Form, use of the Percentage Language Skills Form, and the DLIELC in-house structural analysis list. Skills were analyzed by duty section. The actual lexical items in this MOS were grouped and listed task by task. This information was then used to determine the specific Job Language Performance Requirements.

SECTION III

CLUSTERING OF COMMON AND DUTY POSITION TASKS

INTRODUCTION

Due to the overlapping of certain elements among the various MOS, tasks were clustered in order to prevent duplication of effort for each MOS.

This section contains a listing of the clusters for this MOS.

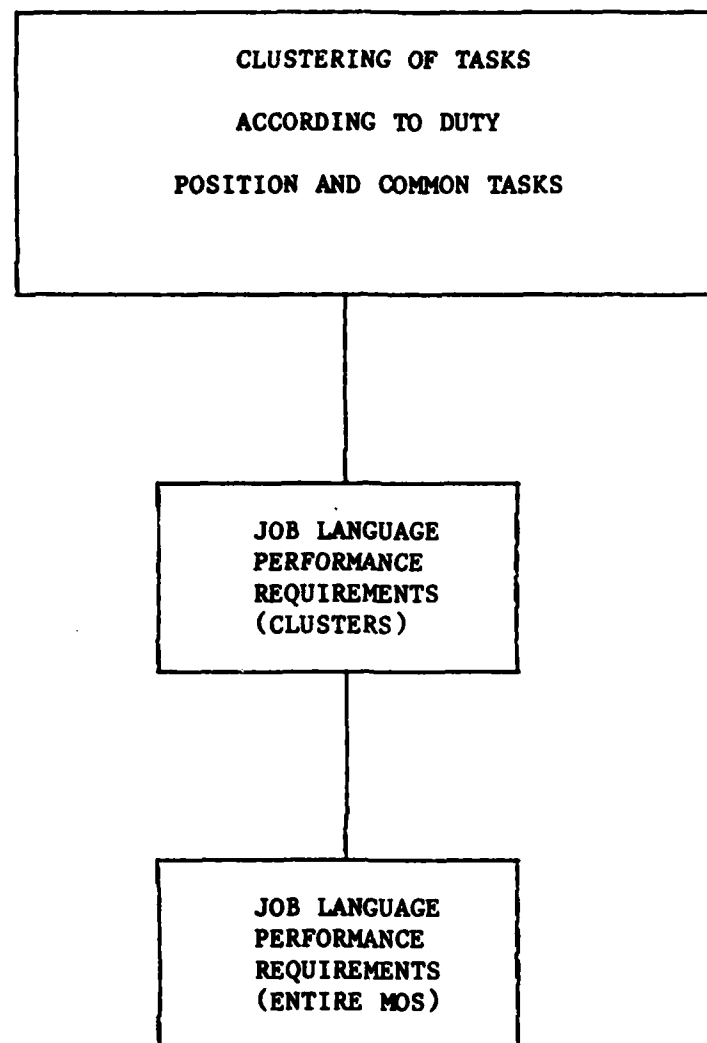


FIGURE 4

SECTION III: CLUSTERING OF COMMON AND DUTY POSITION TASKS

Clustering was done by using the common and duty position tasks in the Soldier's Manual

The following clusters are in this MOS:

1. FIRST AID
2. NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS
3. INDIVIDUAL FITNESS
4. CAMOUFLAGE
5. LAND NAVIGATION
6. M16A1 RIFLE
7. LOGISTICAL MANAGEMENT
8. SUPPLY
9. MAINTENANCE
10. OFF-CARRIAGE FIRE CONTROL INSTRUMENTS
11. TOWED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS
12. SELF-PROPELLED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS
13. ARMORED VEHICLE FIRE CONTROL INSTRUMENTS AND SYSTEMS

SECTION IV

JOB LANGUAGE PERFORMANCE REQUIREMENTS

INTRODUCTION

This section discusses the format for the Job Language Performance Requirements.

SECTION IV: JOB LANGUAGE PERFORMANCE REQUIREMENTS

The format for the Job Language Performance Requirements is:

TASK:
CONDITION:
STANDARD:

A. TASK

The Job Language Performance Requirements state the language tasks the soldier must do in studying/performing specific MOS job tasks. A task addressing language would be one of reading, listening, speaking or writing. Job tasks, as seen in the Soldier's Manual, are those which pertain to the soldiers duties. To write these as language tasks required the following explanations of what the soldier would speak, read, listen and write. Below are the kinds of explanations that had to be made in this MOS.

SPEAKING

Produces oral utterances to report/inform/explain/elicit response/respond.

Analysis of this MOS indicates verbal reports entailing those activities directly related to the soldiers job tasks.

The speaking act to respond or elicit response in this MOS is an oral response to a command or visual signal.

Speaking to explain involves situations of instruction in any training situation.

Speaking to inform involves producing oral utterances to communicate necessary information.

READING

Read for information/to learn.

Printed and written materials are used throughout this MOS. The soldier is expected to read technical manuals, fields manuals, soldier's manual, written communication and audio-visual aids. Content of these materials is presented in formats and styles ranging from simple factual words or sentences to complex passages containing highly technical vocabulary, often with ellipsis. The purpose is to teach the student, so the student reads them to learn. Reading to learn involves reading names, attributes, information, procedures, explanations of how systems work, concepts, vocabulary terms, and definitions which are committed to short or long term memory for immediate or later recognition.

Basically, the soldier will use these reading materials to supplement what is stated in a lecture by integrating the information from the different texts or written communiques into his understanding of the previous lecture.

The soldier must develop the ability to understand the words in context, to read in thought units, and then select and understand the main ideas. The soldier must retain, apply, and integrate these ideas with past experience to use in his MOS.

Reading to learn, then, is a synthesis. ~~What is read is to be retained~~ in memory for integration in new experiences.

Reading for information, on the other hand, is quite different. The read material is to be retained only in short term memory, used for a specific purpose (i.e., look up a metric equivalent of 37 pounds) and then forgotten.

LISTENING

Listen to oral information to learn/to report.

In this MOS, lecture is a main method of instruction. The lecture is often supplemented by a demonstration. The soldier listens to the lecture to learn data pertinent to the task. Analysis of lecture presentations indicated many language variables. The soldier hears sub-standard usages, various registers of style and formality, colloquialisms, even profanity, in situations ranging from a barracks to a field. The soldier must differentiate between the types of language functions. Is it expression, exchange, description, explanation, argumentation, persuasion, statement, request, or order? The oral information may be directly from the speaker and/or indirectly such as over the telephone, radio, TV, or tape. The soldier must organize and gain meaning from what is heard. Out of all these variables, the soldier must identify or infer the main ideas or major points.

Analysis of this MOS did not and could not specify all types of spontaneous language the soldier would be exposed to. The POI, though, does show the general form of the constrained oral language the soldier must listen to in order to learn the task.

B. CONDITIONS

The condition is what the soldier will be given in order to do the task. For the MOS job, the soldier is given paper, pencil, and printed materials. For language purposes, he will be given certain structural and lexical features as found through the data gathering and organizing from interviews and observations. Again, for the job that the soldier will be given, the material may be under normal working conditions, though other conditions may be added such as with or without protective gear or in darkness.

The soldier will read lists, tables, procedures, checklists or signs, and will hear scenarios, lectures, explanations, and commands. Therefore, these are listed with the Job Language Performance Requirements as possible conditions.

C. STANDARDS

The standard for our purpose is 100%. A standard for understanding or speaking cannot be tested as saying the soldier will disassemble a .45 caliber pistol in eight minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

SUMMARY/CONCLUSION:

The Job Language Performance Requirements including tasks, conditions, and standards, were first written for each task cluster. The clusters were then combined into the Job Language Performance Requirements for the entire MOS.

SECTION V

JOB LANGUAGE PERFORMANCE REQUIREMENTS (CLUSTERED)

INTRODUCTION

Sections I, II, III, and IV described how Job Language Performance Requirements were identified and constructed.

This section contains the Job Language Performance Requirements for each task cluster pertinent to this MOS.

FIRST AID

I. PERCENTAGE LANGUAGE SKILLS

Listening	63%
Speaking	43%
Reading	34%
Writing	32%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to respond
CONDITIONS:	Given a medical scenario involving simple questions about an illness in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce oral utterances to explain
CONDITIONS:	Given a simple medical scenario requiring an oral interpretation in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral communication
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to inform
CONDITIONS:	Given a requirement to write in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1070	Determine First Aid Measures to be Applied to a Casualty
091-63A-1071	Perform Artificial Respiration Using Chest Pressure-Arm Lift Method
091-63A-1072	Perform Artificial Respiration Using Mouth-to-Mouth Method
091-63A-1073	Stop the Bleeding of a Wound
091-63A-1074	Administer Shock Control Measures to a Casualty

091-63A-2075 Describe First Aid Treatment of Burns
091-63A-2076 Apply First Aid Measures for Fractures, Sprains, and
Dislocations
091-63A-2077 Describe First Aid Measures for Removing Foreign Object .
From Eye
091-63A-2078 Describe Treatment of Environmental Injuries

NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	72%
Speaking	49%
Reading	37%
Writing	37%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to perform
CONDITIONS:	Given oral warnings or verbal commands regarding simulated NBC situations (scenarios) in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given NBC situations requiring oral alarms
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of procedures, captioned illustrations and notations defined as explanations
STANDARDS:	100% understanding of printed material
TASK:	Write to inform
CONDITIONS:	Given a requirement to write in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1001	Put on Protective Mask
091-63A-1002	Give NBC Alarms and Warnings
091-63A-1003	Recognize and Interpret Markers for Areas of NBC Contamination and Hazards
091-63A-1004	Decontaminate Your Skin Using the M58 Training Kit
091-63A-1005	Decontaminate Your Individual Weapon Using ABC-M13 Kit
091-63A-1006	Apply First Aid Measures to a Chemical Casualty
091-63A-1007	Inspect and Maintain M17 or M17A1 Protective Mask and Its Carrier
091-63A-1008	Take Defense Actions Against Effects of a Nuclear Burst and Possible Resulting Fallout
091-63A-2009	Identify the Three Types and Describe Effects of Nuclear Bursts
091-63A-2010	Describe Actions For Crossing a Radiologically Contaminated Area

INDIVIDUAL FITNESS

I. PERCENTAGE LANGUAGE SKILLS

Listening	43%
Speaking	25%
Reading	17%
Writing	16%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses

III. TASK NUMBERS AND TITLES

091-63A-1100	Maintain an Appropriate Level of Physical Fitness (MALE ONLY)
091-63A-1101	Maintain an Appropriate Level of Physical Fitness (FEMALE ONLY)

CAMOUFLAGE

I. PERCENTAGE LANGUAGE SKILLS

Listening	90%
Speaking	38%
Reading	58%
Writing	56%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform
CONDITIONS: Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of instructions, warnings, procedures and references
STANDARDS: 100% understanding of printed content

TASK: Write to inform
CONDITIONS: Given a requirement to write in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1050 Camouflage Yourself and Your Weapon

LAND NAVIGATION

I. PERCENTAGE LANGUAGE SKILLS

Listening	35%
Speaking	23%
Reading	22%
Writing	24%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of marked maps, definitions, captioned illustrations, instructions and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to record the grid reference
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

091-63A-2140	Measure a Magnetic Azimuth With a Compass
091-63A-2141	Measure an Azimuth on a Map With a Protractor
091-63A-2142	Convert a Magnetic Azimuth to a Grid Azimuth
091-63A-2143	Measure Ground Distance on a Map
091-63A-2144	Locate a Point on a Map Using Military Grid Reference System
091-63A-2145	Orient a Map Using a Compass
091-63A-2146	Determine Your Location on a Map
091-63A-2147	Locate an Unknown Point by Intersection
091-63A-2148	Locate an Unknown Point by Resection
091-63A-2149	Determine Elevation and Relief on a Map
091-63A-2150	Use Map Legend Data to Identify Symbols on a Map

MI6A1 RIFLE

I. PERCENTAGE LANGUAGE SKILLS

Listening	70%
Speaking	34%
Reading	40%
Writing	36%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, warnings and references
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of a range card
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete a range card
STANDARDS:	100% understandable and legible written content
TASK:	Write to inform
CONDITIONS:	Given a requirement to write in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1120	Maintain Individual Weapons
091-63A-1121	Perform Battlesight Zeroing of MI6A1 Rifle.

LOGISTICAL MANAGEMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	31%
Speaking	19%
Reading	23%
Writing	24%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete forms and logs
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1300	Use Department of the Army (DA) Pamphlet 310-4
091-63A-1301	Prepare TAMMS Forms Used by Vehicle Operator
091-63A-1302	Perform Equipment Serviceability Criteria (ESC)
091-63A-2303	Use DA Pam 310-7
091-63A-2304	Describe Types of Modification Work Orders (MWO)

SUPPLY

I. PERCENTAGE LANGUAGE SKILLS

Listening	43%
Speaking	37%
Reading	37%
Writing	35%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete DA Forms 2064 and 3318
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1340	Locate and Record National Stock Number (NSN) for a Repair Part
091-63A-2341	Complete Entries on Document Register for Supply Action (DA Form 2064) and on Record of Demands (DA Form 3318)

MAINTENANCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	47%
Speaking	32%
Reading	27%
Writing	28%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to inform
CONDITIONS:	Given a requirement to write in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1360	Maintain Assigned Tool Kit/Set
091-63A-1361	Maintain Individual Clothing and Equipment

OFF-CARRIAGE FIRE CONTROL INSTRUMENTS

I. PERCENTAGE LANGUAGE SKILLS

Listening	37%
Speaking	23%
Reading	28%
Writing	23%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete DA Form 2404
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-41C-1401	Perform a Torque Inspection of Collimator, Infinity, M1
091-41C-1402	Inspect Battery Power Supply M9
091-41C-1403	Charge a Collimator, Infinity, M1, with Nitrogen
091-41C-2404	Replace Rheostat in Remote Control Light Source of a Collimator, Infinity, M1
091-41C-1412	Troubleshoot Quadrant, Fire Control (Gunner's), M1A1, w/E
091-41C-2413	Replace Radial Arm Plunger on Quadrant, Fire Control (Gunner's), M1A1, w/E
091-41C-1423	Inspect Aiming Circle M2, w/E
091-41C-2424	Repair and Adjust Aiming Circle M2
091-41C-1434	Repair and Adjust Binoculars M13A1 and M17A1
091-41C-1445	Repair Aiming Post Light M14
091-41C-1456	Inspect Telescope, Battery Commander's, M65, w/E
091-41C-2457	Repair Telescope, Battery Commander's, M65, w/E
091-41C-2458	Collimate Telescope, Battery Commander's, M65, w/E

TOWED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS

I. PERCENTAGE LANGUAGE SKILLS

Listening	28%
Speaking	14%
Reading	20%
Writing	16%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete the applicable forms for all deficiencies
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-41C-1490	Inspect Quadrant, Fire Control, M14
091-41C-2491	Repair Stop Ring Assembly of Quadrant, Fire Control, M14
091-41C-1497	Repair and Adjust Mount, Telescope, M25
091-41C-1504	Repair Sight Unit M53
091-41C-1508	Remove/Install Sight, Automatic Lead Computing M61 on a Gun, Air Defense Artillery, 20mm, M163
091-41C-1513	Boresight Fire Control System on Howitzer M102 Using Test Target Method
091-41C-1518	Perform an Operational Inspection on a Telescope, Panoramic, M113
091-41C-2519	Adjust Telescope, Panoramic, M113, for Image Tilt
091-41C-1532	Inspect Telescope, Elbow, M114
091-41C-2533	Disassemble, Clean, and Assemble Eyepiece Assembly of a Telescope, Elbow, M114
091-41C-2540	Replace a Level Vial on a Mount, Telescope, M134

SELF-PROPELLED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS

I. PERCENTAGE LANGUAGE SKILLS

Listening	35%
Speaking	18%
Reading	24%
Writing	22%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete the applicable DA Forms for all deficiencies
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

091-41C-1571	Troubleshoot Cross-Level Mechanism in a Quadrant, Fire Control, M15
091-41C-2572	Replace Bent Wormshaft in a Quadrant, Fire Control, M15
091-41C-1580	Troubleshoot Telescope, Panoramic, M115
091-41C-1581	Charge Telescope, Panoramic, M115, with Nitrogen
091-41C-2582	Replace Cracked Lens in Eyepiece of Telescope, Panoramic, M115
091-41C-1590	Inspect Mount, Telescope, M137
091-41C-2591	Replace V Bearing on Wormshaft of Cross-Leveling Mechanism of Mount, Telescope, M137
091-41C-1600	Install Mount, Telescope, M145, in Howitzer, SP, M109
091-41C-1601	Synchronize Mount, Telescope, M145, in Howitzer, SP, M109

ARMORED VEHICLE FIRE CONTROL INSTRUMENTS AND SYSTEMS

I. PERCENTAGE LANGUAGE SKILLS

Listening	20%
Speaking	8%
Reading	15%
Writing	10%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of manuals and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete the applicable DA forms for all deficiencies
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-41C-1631	Troubleshoot Computer, Ballistics, M13A2
091-41C-1632	Remove Computer. Ballistics, M13A2, From Tank M60A1
091-41C-2633	Repair Computer, Ballistics, M13A2
091-41C-1640	Troubleshoot Periscope, Infrared, M19
091-41C-2641	Replace High Voltage Cable Assembly in Periscope M19
091-41C-1660	Install Azimuth Indicator M28A1 in Tank M60A1
091-41C-1661	Inspect Azimuth Indicator M28A1 Mounted in Tank M60A1
091-41C-1670	Inspect Periscope, Tank, M36
091-41C-2671	Repair Periscope, Tank, M36
091-41C-2672	Synchronize a Periscope, Tank, M36, and Machinegun M85 Installed in a Tank M60A1
091-41C-1680	Install Periscope, Gunner's, M32, in Tank, M60A1, and Perform an Operational Inspection
091-41C-1690	Inspect Periscope, Tank, M44
091-41C-2691	Remove and Install an Image Intensifier Tube in a Periscope M44
091-41C-2692	Perform Operational Inspection of the Control Panel Assembly of Periscope M44
091-41C-1701	Boresight a Telescope, Articulated, M127, That is Mounted in an ARAAV M551
091-41C-1710	Inspect Mount, Telescope, M149

091-41C-1717	Troubleshoot Mount, Telescope, M153
091-41C-2718	Replace Switching Circuit Assembly in Mount, Telescope, M153
091-41C-1726	Perform Final Inspection on Sight, Infinity (8635466)
091-41C-2727	Troubleshoot and Repair Wiring Circuit in Sight, Infinity (8635466)
091-41C-2728	Repair and Adjust Sight, Infinity (8635466)
091-41C-1735	Boresight Fire Control System of Tank M60A1
091-41C-1741	Boresight and Synchronize Periscope M51 and .50 Caliber Machinegun in Tank M60A2
091-41C-1748	Install Rangefinder, Fire Control, M17A1, in Tank M60A1
091-41C-2749	Replace Diopter Scale on Rangefinder, Fire Control, M17A1
091-41C-2756	Test/Adjust Missile Guidance and Control System in ARAAV M551
091-41C-2763	Perform Amplifier Gain Adjustment on Computer, Ballistics, M19, Which is Installed in Tank M60A2
091-41C-2770	Install, Purge, and Synchronize Commander's Computer Control Unit in Tank M60A2

SECTION VI

JOB LANGUAGE PERFORMANCE REQUIREMENTS (Entire MOS)

INTRODUCTION

This section contains language tasks for each generic skill for this MOS. Listed below each task are the types of receptive or productive language activity involved.

LISTENING

TASK: Understand oral language intended to inform or instruct.

CONDITIONS: Given explanations, procedures, rules, instructions or definitions in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding and assimilation of presented oral language task.

The following are specific conditions found in this language task:

Warnings
Described situations
Directions
Lectures
Commands, Orders
Sound tracks (films, tapes)
Standard/Non-standard English
Instructions
SQT questions

TASK: Understand spontaneous oral language or language via a technical medium - such as a radio telephone - intended to inform and elicit responses.

CONDITIONS: Given scenarios, questions, commands or requests in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5, & 6)

STANDARDS: 100% understanding and assimilation of oral language in order to apply and respond.

The following are specific conditions found in this language task:

Shouting
Radio communications
Coded messages
Spellings
Conversation
Requests

SPEAKING

TASK: Formulate and produce appropriate oral responses spontaneously.

CONDITIONS: Given any verbal stimulus in the form of questions, scenarios, instructions, or cues in any training situation.
(Appendices 5 & 6)

STANDARDS: 100% understandable oral response using correct lexicon and syntax for the training situation.

The following are specific conditions found in the language task:

- Explanations
- Statements
- Repetitions
- Counting
- Corrections
- Assignments
- Notifications
- Oral reports
- Answers
- Clarifications
- Information

TASK: Produce oral utterances to interact and communicate spontaneously or via a technical medium such as radio telephone.

CONDITIONS: Given a communicative situation (Appendices 4, 5, & 6 Soldier's Manual) in any training situation.

STANDARDS: 100% understandable communication using correct lexicon and syntax for the communication act.

The following are specific conditions found in this language task:

- Requesting information
- Requesting permission
- Transmitting messages
- Call signs
- Vocal signals
- Shout warnings
- Radio communications
- Target locations
- Directions (N,S,E,W)
- Directions, general
- Requests for fire
- Report on the results of fire
- Challenges/Passwords
- Training sessions
- Interaction

READING

- TASK:** Read MOS training in the form of printed prose or graphic representations in order to learn processes, concepts, vocabulary, definitions and identifications, to calculate problems, intercept codes and complete forms.
- CONDITIONS:** Given technical, non-technical, lexical and structural features in simple to complex printed form in any training situation.
(Appendices 4, 5 & 6)
- STANDARDS:** 100% understanding of printed content.

The following are specific conditions found in this language task:
Captions with illustrations.

Lists	Extracts
Procedures	Columns
Information	Indices
Definitions	Charts
Outlines	Methods
Signs	Technical Vocabulary
Markers	Standard Operating Procedures
References	Cartoons
Rules	Problems
Maps	Manuals
Flags	Graphic Training Aids
Military Documents	
I.D. Papers	
Regulations	

- TASK:** Identify, understand, and interpret written utterances pertinent to MOS training in technical or non-technical language.
- CONDITIONS:** Given technical, non-technical, lexical and structural features in simple to complex written form in any training situation.
(Appendices 4, 5 & 6)
- STANDARDS:** 100% understanding of written content.

The following are specific conditions found in this language task:

Lists
Information
Descriptions
Radiation readings off dosimeter
Coordinate scales
Callsigns-suffices
Three-letter codes
Examples
Calculations
Markings
Radio communications
Range cards
Notes
Messages

WRITING

- TASK:** Upon instruction, write in conventional orthography, letter, numbers, words or sentences appropriate to the training situation.
- CONDITIONS:** Given standardized forms, paper or answer sheets and the instructions to list, answer, describe or recall.
- STANDARDS:** 100% syntactical and lexical correctness and legibility of writing which is also appropriate in style and usage to training situations. (Appendix 4)

The following are specific conditions found in this language task:

Ratings
Signatures
Range cards
Data symbols
Answers
Descriptions
Notes
Reports

- TASK:** Write, in conventional orthography, letters, or specialized code, numbers, words or sentences in order to transmit or record information.
- CONDITIONS:** Given standardized forms or paper and oral communication.
- STANDARDS:** 100% syntactical and lexical correctness of writing which can be read by another speaker of English.

The following are specific conditions found in this language task:

Technical forms
Codes
Grid coordinates
Decoded messages
Encoded messages
Logbooks
Plottings
Figures
Reports
Tags
Range cards
Applicable DA forms

APPENDICES

1. Task Prioritization Checklist
2. Task Inventory Compiled Data Forms
3. Percentage Language Skills
4. Observation Form
5. Structural/Lexical list
6. Vocabulary (DLIELC in-house)
7. Vocabulary (machine-generated)
8. English Language Structures

APPENDIX 1

TASK PRIORITIZATION CHECKLIST

This Checklist was approved by the
Department of the Army in 1980.

JOHN COLEMAN, MOI

1-10M

TAUGHT

TESTED

RESULTS IN DANGER TO EQUIPMENT

44

(PRESENTLY WORKING IN)

2= med
3= high

MOS IN WHICH YOU WERE TRAINED:
POSITION:
UNIT:

YES

NO

IS TASK TAUGHT?

LISTENING*
SPEAKING*
READING*
WRITING*

LECTURE
SELF-PACED
DEMONSTRATION
HANDS-ON

YES

NO

IS TASK TESTED?

WRITTEN
ORAL
PERFORMANCE
PERSON

RESULTS IN DANGER TO EQUIPMENT

APPENDIX 2

TASK INVENTORY COMPILED DATA FORM

This form was used to record data from
the Task Prioritization Checklist.

TRAINING SPECIALIST

0911-639-2075

F-1252 714

[illegible]

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELLS	UNIT		CRITICALITY		METHODS OF TEACHING		METHODS OF TESTING		RATING OF ELLS		MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST			
						difficult?	tested?	importance	equipment	danger to person or	self-paced	hands-on	demonstration	lecture	performance	oral	written	listening	speaking	reading	writing				

equipment
importance
difficult?
tested?
MOS _____ NUMBER OF RESPONDENTS _____
DATA OBTAINED FROM _____ TRAINING SPECIALIST _____
writing
reading
speaking
listening
written
oral

Land NAVIGATOR

MOS

412

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST	
											danger to person or equipment	importance	difficult?	tested?	danger to person or equipment	importance	difficult?	tested?
091-63A-2146			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
091-63A-2147			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
091-63A-2148			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
091-63A-2149			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
091-63A-2150			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
091-63A-1120			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												

LAND NAVIGATOR

TRAINING SPECIALIST

091-63A-2303

LOG 157104 MAT 24 1967

MAINTENANCE

MOS _____ NUMBER OF RESPONDENTS _____
DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

[illegible]

MOS

41C

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	IMPORTANCE	EQUIPMENT	DANGER TO PERSON OR	difficult?	tested?	MOS	NUMBER OF RESPONDENTS	DATA OBTAINED FROM	TRAINING SPECIALIST
091-41C-1423		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
091-41C-2424		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
091-41C-1424		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
091-41C-1425		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
091-41C-1426		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
091-41C-2427		5	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1

OFF CARGO FILE CONTROL INSTRUCTIONS

[illegible]

DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

[illegible]

NOS 410

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING				METHODS OF TESTING				RATING OF ELS			
			lecture	demonstration	hands-on	self-paced	performance	oral	written	listening	speaking	reading	writing	
091-410-1632	taught?													
	tested?													
	difficulty?													
	importance													
091-410-2633	taught?													
	tested?													
	difficulty?													
	importance													
091-410-1640	taught?													
	tested?													
	difficulty?													
	importance													
091-410-2641	taught?													
	tested?													
	difficulty?													
	importance													
091-410-1660	taught?													
	tested?													
	difficulty?													
	importance													

ARMED OFFICE FIRE CONTROL INSTRUMENTS AND SYSTEMS

[illegible]

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		
						danger to person or equipment	importance					difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST	
091-416-2691	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST
091-416-2692	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST
091-416-1701	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST
091-416-1710	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST
091-416-1717	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST
091-416-2718	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	writing reading speaking listening	written oral performance	self-paced hands-on demonstration lecture	danger to person or equipment	importance	difficult?	tested?	DATA OBTAINED FROM	TRAINING SPECIALIST

52225 2nd review

ARMORED VEHICLE FIVE CONTROL SYSTEMS
MAY 1957

MOS

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		importance	equipment	danger to person or	lecture	demonstration	hands-on	self-paced	performance	oral	written	listening	speaking	reading	writing
						tested?	difficult?														
091-41C-1726																					
091-41C-2727																					
091-41C-2728																					
091-41C-1735																					
091-41C-1741																					

FIRE-ARMS, VEHICLE FIRE CONTROL INSTRUMENTS AND SYSTEMS

MOS _____ NUMBER OF RESPONDENTS _____

DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

[illegible]

APPENDIX 3

PERCENTAGE LANGUAGE SKILLS

This appendix contains the computations for the percentages of listening, speaking, reading and writing involved in each cluster.

Some clusters have two sets of computations because some Task Prioritization Forms were received after original computations and had to be added on.

PERCENTAGE LANGUAGE SKILLS
MOS 410

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\frac{TR + (T)(V)(R)}{T} = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
FIRST AID 091-63A-1070 THRU 091-63A-1074 091-63A-2075 THRU 091-63A-2078	$9 \times 5 \times 9 = 405$ 56 48 53 39 59 <u>255</u> $405 \overline{) 255.000}$.630 405	$9 \times 2 \times 9 = 162$ 27 43 <u>70</u> $162 \overline{) 70.000}$.432 162	$9 \times 3 \times 9 = 243$ 21 16 45 <u>82</u> $243 \overline{) 82.000}$.337 243	$9 \times 4 \times 9 = 324$ 48 21 16 18 <u>103</u> $324 \overline{) 103.000}$.318 324
	63%	43%	34%	32%
NBC 091-63A-1001 THRU 091-63A-1008 091-63A-2009 091-63A-2010	$10 \times 5 \times 9 = 450$ 70 58 56 63 78 <u>325</u> $450 \overline{) 325.000}$.722 450	$10 \times 2 \times 9 = 180$ 30 59 <u>89</u> $180 \overline{) 89.000}$.494 180	$10 \times 3 \times 9 = 270$ 28 19 4 <u>101</u> $270 \overline{) 101.000}$.374 270	$10 \times 4 \times 9 = 360$ 58 28 19 27 <u>132</u> $360 \overline{) 132.000}$.367 360
	72%	49%	37%	37%
INDIVIDUAL FITNESS 091-63A-1100 091-63A-1101	$2 \times 5 \times 7 = 70$ 7 4 4 8 7 <u>30</u> $70 \overline{) 30.000}$.429 70	$2 \times 2 \times 7 = 28$ 2 5 <u>7</u> $28 \overline{) 7.000}$.250 28	$2 \times 3 \times 7 = 42$ 2 1 4 <u>7</u> $42 \overline{) 7.000}$.167 42	$2 \times 4 \times 7 = 56$ 4 2 1 2 <u>9</u> $56 \overline{) 9.000}$.161 56
	43%	25%	17%	16%
				1.6

PERCENTAGE LANGUAGE SKILLS
NOS 41C

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FOR TIA	LISTENING	SPEAKING	READING	WRITING
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
CAMOUFLAGGE 091-63A-1050	$1 \times 5 \times 4 = 20$ $\begin{array}{r} 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ \hline 18 \end{array}$ $\begin{array}{r} .900 \\ 20 \overline{) 18.000} \end{array}$	$1 \times 2 \times 4 = 8$ $\begin{array}{r} 1 \\ 2 \\ \hline 3 \end{array}$ $\begin{array}{r} .375 \\ 8 \overline{) 3.000} \end{array}$	$1 \times 3 \times 4 = 12$ $\begin{array}{r} 2 \\ 2 \\ 3 \\ \hline 7 \end{array}$ $\begin{array}{r} .583 \\ 12 \overline{) 7.000} \end{array}$	$1 \times 4 \times 4 = 16$ $\begin{array}{r} 3 \\ 2 \\ 2 \\ 2 \\ \hline 9 \end{array}$ $\begin{array}{r} .562 \\ 16 \overline{) 9.000} \end{array}$
	90%	38%	58%	56%
LAND NAVIGATION 091-63A-2140 THRU 091-63A-2150	$11 \times 5 \times 10 = 550$ $\begin{array}{r} 41 \\ 38 \\ 36 \\ 31 \\ 48 \\ \hline 194 \end{array}$ $\begin{array}{r} .353 \\ 550 \overline{) 194.000} \end{array}$	$11 \times 2 \times 10 = 220$ $\begin{array}{r} 22 \\ 28 \\ \hline 50 \end{array}$ $\begin{array}{r} .227 \\ 220 \overline{) 50.000} \end{array}$	$11 \times 3 \times 10 = 330$ $\begin{array}{r} 16 \\ 11 \\ 47 \\ \hline 74 \end{array}$ $\begin{array}{r} .224 \\ 330 \overline{) 74.000} \end{array}$	$11 \times 4 \times 10 = 440$ $\begin{array}{r} 38 \\ 16 \\ 11 \\ 39 \\ \hline 104 \end{array}$ $\begin{array}{r} .236 \\ 440 \overline{) 104.000} \end{array}$
	35%	23%	22%	24%
M16A RIFLE 091-63A-1120 091-63A-1121	$2 \times 5 \times 8 = 80$ $\begin{array}{r} 12 \\ 10 \\ 12 \\ 10 \\ 12 \\ \hline 56 \end{array}$ $\begin{array}{r} .700 \\ 80 \overline{) 56.000} \end{array}$	$2 \times 2 \times 8 = 32$ $\begin{array}{r} 4 \\ 7 \\ \hline 11 \end{array}$ $\begin{array}{r} .344 \\ 32 \overline{) 11.000} \end{array}$	$2 \times 3 \times 8 = 48$ $\begin{array}{r} 5 \\ 4 \\ 10 \\ \hline 19 \end{array}$ $\begin{array}{r} .396 \\ 48 \overline{) 19.000} \end{array}$	$2 \times 4 \times 8 = 64$ $\begin{array}{r} 10 \\ 5 \\ 4 \\ 4 \\ \hline 23 \end{array}$ $\begin{array}{r} .360 \\ 64 \overline{) 23.000} \end{array}$
	70%	34%	40%	36%

PERCENTAGE LANGUAGE SKILLS
NOS 410

TR = total number of responses to variables in the cluster
T = number of tasks in ' cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\% = \frac{TR + (T)(V)(R)}{TR + (T)(V)(R)}$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
LOGISTICAL MANAGEMENT	5X5X9=225 15 13 15 11 15 <u>69</u> 225 $\sqrt{69.000}$ $\cdot 307$	5X2X9=90 9 8 <u>17</u> 90 $\sqrt{17.000}$ $\cdot 189$	5X3X9=135 7 8 <u>16</u> 31 135 $\sqrt{31.000}$ $\cdot 230$	5X4X9=180 13 7 8 <u>15</u> 43 180 $\sqrt{43.000}$ $\cdot 239$
091-63A-1300 THW 091-63A-1302 091-63A-2303 091-63A-2304				
	31%	19%	23%	24%
SUPPLY	2X5X13=130 11 11 11 10 13 <u>56</u> 130 $\sqrt{56.000}$ $\cdot 431$	2X2X13=52 8 11 <u>19</u> 52 $\sqrt{19.000}$ $\cdot 365$	2X3X13=78 9 5 <u>15</u> 29 78 $\sqrt{29.000}$ $\cdot 372$	2X4X13=104 11 9 5 <u>11</u> 36 104 $\sqrt{36.000}$ $\cdot 3$
091-63A-1340 091-63A-2341				
	43%	37%	37%	35%
MAINTENANCE	2X5X11=110 9 11 11 8 13 <u>52</u> 110 $\sqrt{52.000}$ $\cdot 473$	2X2X11=44 4 10 <u>14</u> 44 $\sqrt{14.000}$ $\cdot 318$	2X3X11=66 5 2 <u>11</u> 18 66 $\sqrt{18.000}$ $\cdot 273$	2X4X11=88 11 5 2 <u>7</u> 25 88 $\sqrt{25.000}$ $\cdot 28$
091-63A-1360 091-63A-1361				
	47%	32%	27%	28%

PERCENTAGE LANGUAGE SKILLS
MOS 410

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\frac{TR + (T)(V)(R)}{TR} = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
OFF-CARRIAGE FIRE CONTROL INSTRUMENTS	$13 \times 5 \times 13 = 845$ 64 41 64 79 68 <u>316</u> .374 845 / 316.000	$13 \times 2 \times 13 = 338$ 23 54 <u>77</u> .228 338 / 77.000	$13 \times 3 \times 13 = 507$ 40 22 79 <u>141</u> .278 507 / 141.000	$13 \times 4 \times 13 = 676$ 41 40 22 55 <u>158</u> .230 676 / 158.000
	37%	23%	28%	23%
TOWED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS	$11 \times 5 \times 10 = 550$ 36 23 33 37 26 <u>155</u> .282 550 / 155.000	$11 \times 2 \times 10 = 220$ 10 20 <u>30</u> .136 220 / 30.000	$11 \times 3 \times 10 = 330$ 15 14 36 <u>65</u> .197 330 / 65.000	$11 \times 4 \times 10 = 440$ 23 15 14 18 <u>70</u> .159 440 / 70.000
	28%	14%	20%	16%
SELF-PROPULLED ARTILLERY FIRE CONTROL INSTRUMENTS AND SYSTEMS	$9 \times 5 \times 10 = 450$ 30 30 30 39 27 <u>156</u> .347 450 / 156.000	$9 \times 2 \times 10 = 180$ 9 23 <u>32</u> .178 180 / 32.000	$9 \times 3 \times 10 = 270$ 21 7 38 <u>66</u> .244 270 / 66.000	$9 \times 4 \times 10 = 360$ 30 21 7 21 <u>79</u> .219 360 / 79.000
	35%	18%	24%	22%
		4		109

MOS 4K

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APPENDIX 4

OBSERVATION FORMS

The attached forms were taken to the actual training where observers recorded actual training situations and language used in the training. These forms were used to indicate the CONDITIONS for the Job Language Performance Requirements in this MOS.

OS _____

PERSON RECORDING _____

LOCATION
(UNIT/ALT) _____

* TASK NUMBER IF KNOWN _____

Environment of Instruction.

Room _____

Areas (live firefield- mark-up terrain)

Large enclosed area (bleacher sites)

Warehouse size)

Other _____

Comments: _____

Styles of Communication Instructor, Verbal order

- A. Formal Speech
- B. Informal Speech
- C. Regional/Ethnic
- D. Body Language
- E. Profanity
- F. Shop talk/slang
- G. Non-standard English
- I. Other

Comments: _____

Media of Instruction

- 1. Films
- 2. Video cassettes
- 3. Graphic Training Aids (diagrams, etc....)
- 4. Illustrations (requiring reading/not requiring reading)
- 5. Maps
- 6. Mock-ups
- 7. Models/Animates
- 8. Real equipment
- 9. Transparencies
- 10. Tape cassettes
- 11. Training Publications (required/available)
- 12. Signs/Notices
- 13. P.A. System
- 14. Normal Voice
- 15. Soldier's Manual
- 16. Chalkboard
- 17. Other

Comments: _____

Mode of Response

- A. Manipulating a piece of equipment/device
- B. Answers (spoken - written)
- C. Signals
- D. Performance
- E. Taking Notes
- F. Teamwork
- G. Other

Comments: _____

Instructional Ratio

- 1. Instructor, one-to-one/class
- 2. Peer/one-to-one
- 3. Group or Committee Group (group of instructors of whom one teaches one portion of the work)
- 4. - Small (12 or less)
- 5. - Large (more than 12)
- 6. Other
- 7. Comments
- 8. Comments

APPENDIX 5

STRUCTURAL/LEXICAL LIST

Attached is the list of
structural and lexical items
for this MOS.
(For discussion, see Section II)

STRUCTURAL ITEMS

SENTENCE PATTERNS

SIMPLE: One subject and one predicate

1. Subject and action verb
Firer aims.
2. Subject and action verb and direct/indirect object
Many things cause burns.
3. Subject and linking verb and subjective complement
This is very important.

COMPOUND: Two or more sentences joined by:

1. Coordinating conjunction

Explain the task and ask the trainees if they understand the task, and the conditions they are expected to perform at the end of the session, the conditions under which they must operate, and the standard they must achieve.

2. Conjunctive adverb

Do not start or stop the vehicle while the radio is on or you may damage the set.

3. Semicolon

A light pressure is exerted on the driving spring when the bolt is forward; however, never attempt to cock the gun while the backplate is off and the driving spring assembly is in place.

COMPLEX: One or more dependent clauses

1. Adjectival (functions as an adjective by modifying nouns and pronouns)

At the bottom of the map you will find three different bar scales which will help you to change map distance to miles, meters, or yards.

2. Adverbial (functions as an adverb by modifying verbs, adjectives, and other adverbs) The mouth-to-nose method is performed in the same way except you blow into his nose while you pinch his lips closed with one hand.

3. Noun (functions as a noun) The person who is performing artificial respiration quickly blows into the casualty's lungs after each five compressions.

SENTENCE TYPES

1. INTERROGATIVE

(do, does, modal, wh-, tag, inverted)
But what about the other 15 meters?
Ask, "What is there?"

2. DECLARATIVE

Classified information will not be discussed over the telephone.

3. EXCLAMATORY

HALT!

4. IMPERATIVE

Issue the challenge in a soft voice and wait for the (requests, commands, second person (singular/plural, negative/affirmative), First and second person (let's)) stranger to reply with the correct password.

5. ELLIPSIS:

Split the bracket until fire for effect is possible. Most common type of ellipsis--subject deleted

6. FRAGMENT

Movement to occupy a position.
All other parts.

ADVERBIAL CLAUSES

1. PURPOSES

Training must be conducted so that at least 80% of the students can accomplish the task trained to the standards specified for the task.

2. CONTRAST

Although natural terrain features are likely not to change and make good reference points to orient a map, you may also use manmade features such as roads, bridges, etc., to orient your map.

3. COMPARISON

Place suitable material under him as well as over him if necessary.

4. RESULT

Blending is the use of camouflage materials on, over, and around an object so that it appears to be part of the background.

5. MANNER

Take deep breath and place mouth around soldier's mouth; then blow forcefully as you observe his chest.

6. TIME

When you have to go a certain distance on foot without any landmarks to guide you, you can measure distance pretty accurately by counting your paces.

Split the bracket until fire for effect is possible.

7. PLACE

Loosen clothing at neck, waist, and other places where it tends to bind.

8. CAUSE

Be careful not to depress the trigger, since this will cause the firing pin to be released.

9. ADVERSATIVE

The casualty has no fractures, but has a bleeding wound.

10. CONDITION

If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.

PHRASES

1. GERUND

(upon) Hearing the correct password, give permission to pass if you have no other reasons to doubt.

2. PARTICIPIAL

Using a straightedge draw a line between the two objects.

3. INFINITIVE

To camouflage exposed skin paint the shiny areas with a dark color.

4. PREPOSITIONAL

Under certain light conditions, front sight ports can be seen, but you can't determine whether you are looking through, above, or to the side of the rear sight aperture.

LEXICAL ITEMS

ADJECTIVALS

"rifle bore cleaner"
"waste material"
"burning residue"
"semi-fixed ammunition"
"extracting/loading ammunition"
"firing hammer"
"four life-saving steps"
"chest/heart massage"
"tourniquet material"
"field material"
"field condition"
"mouth-to-mouth resuscitation"

ADJECTIVES

1. WORD + ABLE

AVAILABLE

2. COMPARATIVES

Threat main tanks are smaller than the US main battle tanks.

3. SUPERLATIVES

The most dangerous targets are those that see you, have the capability of killing you, and appear to be preparing to engage you.

PRONOUNS

1. INDEFINITE

Have someone walk the FDL (if enemy situation permits), and determine dead space (sections of FDL where individual drops below line of sight).

2. POSSESSIVE

Shake his shoulder and shout, "Are you OK.?"

3. SUBJECTIVE

This will give you correct nomenclature.

4. OBJECTIVE

It will also give you the correct functioning.

5. REFLEXIVE

Keep yourself clear of the muzzle.

VERBS

1. VERB TENSES

Make sure you clearly understand the task you are to teach.

--You will be tested.

--If they elect to take it, they must complete the test once they have begun the first event or else they will receive a NO GO for the entire test.

--If the soldier is breathing, mouth-to-mouth resuscitation is not necessary.

--When all 10 pebbles have been moved to the left pocket, you have traveled one kilometer.

--Have someone walk the FDL and determine dead space.

--Sensing is an instantaneous determination by the grenadier as to where the grenade exploded.

present progressive verb
present verb (uninflected, third
person, indicative)
past tense (regular/irregular)
present perfect
future

2. TYPES

intransitive
(You) train for results.

transitive
Mask the casualty.

linking
The skin becomes inflamed.

3. VOICE

active

recognize
protect
is facing
remove
explode
sounds
points out
seen

appear
seek
secure
wear
mask
stored
do require
could affect

has
must be
wipe
rinse
put brush
empty
reassemble
reinstall

passive

given
is protected
is sprayed

are alerted
are reported
have been corrected

are authorized
be corrected

passive+verb+ing
"task will be performed
using procedures"
modal+passive voice
"can be determined"
modal+negative+passive
"must not be eliminated"

4. MODALS

You must demonstrate, once every 6 months, that you can meet or exceed the minimum level of physical fitness required of each member of your unit in accordance with the standards contained in AR 600-9.

Personnel over the age of 40 may elect not to take the APFT. The pulse should be found in the soft area between the Adam's apple and the large muscle on the side of the neck.

Injury or death could result.

During surveillance the operator will have to adjust the range focus to get a sharp image at different ranges.

"might have to be placed"
"be"
"will be given"
"should be"
"must"
"must be"
"can"
"can be"
"may be"
"should not be"

5. AUXILLIARIES

(do, does, negative)

Do not zero in under 100 meters.

If the round does not fall within 5 meters of target, zeroing procedures are called for.

GERUNDS

Sensing is an instantaneous determination by the grenadier as to where the grenade explodes with respect to the target.

INFINITIVES

To fire, hold the M16A1 in the rest with your right shoulder firmly against the weapon's butt plate.

ADVERBS +

1. SUPERLATIVE

When such a line of fire exists, the primary sector will be assigned, based on it, with the FDL being the sector limit closest to the friendly troops.

2. INDEFINITE

The launcher has a heavy coat of oil on working parts, and a light coat of oil elsewhere.

3. FREQUENCY

Apply a little graphite grease to the threads of the antenna section for easy removal and to prevent the sections from seizing if they have been rarely removed.

4. OTHER

Assembly procedure for the grenade launcher merely reverses disassembly steps.

5. COMPARATIVE

The care, cleaning, lubrication and adjustment of the mount used with the gun are no less important.

VERBS AND PREPOSITIONS

Line up the key in the receptacle with the slot in the cable connector.

VERBS AND ADVERB (particles)

Put on the protective mask within nine seconds of the chemical alarm and remain in the contaminated area for at least two minutes without making further adjustments to the mask.

APPENDIX 6

VOCABULARY (DLIELC IN-HOUSE)

The following vocabulary list was extracted from the Soldier's Manual task by task and then categorized into GENERAL, BASIC AND TECHNICAL vocabulary.

NOT APPLICABLE

REF: On 15 MAY 1981 agreement between
TRADOC and DLIELC was reached
that DLIELC In-House Vocabulary
would not be produced for this
MOS.

APPENDIX 7

Appendix 7 is the machine-generated vocabulary list. It was not useful for our purposes. It is included as a vocabulary reference.

HEADQUARTERS

DATA CONTROL NUMBER

100 NO / PROJECT NO

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

WFA

DEC 9 1980

DVI



41 C-1

COPY ____ OF ____ COPIES

PREPARED BY: OPERATIONS DIV, DPFO

A1DP FORM 109 109 Replaces ATRM 110, Jul 73, which is obsolete

COUNT 1 JFRAU1

COUNT 12 MONC2

MUS MONO LISTING/ASCENDING SEE PAGE
COUNT 13 MONC3

DATE 80339 2141 PAGE
COUNT 14 MONC4

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HEADQUARTERS

DATA CONTROL NUMBER

JOB NO / PROJECT NO

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

WFA

DEC 9 1980

DLE



41C-2

PREPARED BY: OPERATIONS DIV. DPFO

ATDP FORM 109 Replaces ATUS 118, Jul 71, which is obsolete

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AD-A121 061

JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS-41C FIRE
CONTROL INSTRUMENT. (U) DEFENSE LANGUAGE INST LACKLAND
AFB TX ENGLISH LANGUAGE CENTER. 31 JAN 77

2/2

UNCLASSIFIED

F/G 5/9

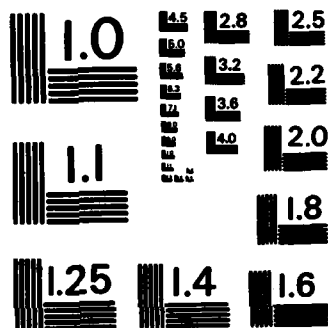
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END

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DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

1 UNDER	6 UNIT	1 UNSOLDER	27 USE
5 USING	12 VII TAGF	21 VAN	6 VUC
5 VIAL	1 WARNING	11 VII TS	
2 WHIT	7H WILL	1 WATINR	10 NICH
5 WIR IVS	11 WITH	1 WIPR	3 WIRE
7 WIRSHAF	3 WRENCH	25 WITHUJT	6 WORM
		79 YOU	25 YDIR
			2 ZERO

COUNT1 WORD1

COUNT2 WORD2

144 TEST	131 AND	108 PM	97 EQUIPMENT
94 TO	92 TM	74	90 RF
79 MUST	79 YOU	74 WILL	74 ON
69 SHIP	67 CAPTAIN	57 PERFORMANCE	50 STANDARDS
62 REPAIR	60 DE	50 ASSEMBLY	57 FIRE
50 NECESSARY	50 IN	50 TELESCOPE	29 PLIMAGE
27 DA	27 NUT	27 TESTED	27 USF
26 ANY	26 COMPLETED	26 CONDUIT LIMS	26 DAMAGE
26 DEFICIENCIES	26 LISTED	26 RESULT	25 APPLICABLE
25 FAILURE	25 FIRMS	25 ABILITY	25 PEFT
25 NO-GO	25 PROBABLY REFERENCE	25 MEASURES	25 RATING
25	25 SAFETY	25 PROPERLY	25 STUDY
25 TASK	25 THESE	25 SITUATION	25 WITHOUT
25 YOUR	24 CONDUCTED	25 TOOLS	24 OR
24 SYSTEMS	23 CHAP	24 INSTRUMENT	20 PERISCOPE
16 AN	15 ADJUST	21 VAN	15 REMOVE
14 PERFORM	14 TANK	15 MOUNT	12 VOLTAGE
11 FIXTURE	11 IS	12 MECHANISM	10 COMMANDER'S
10 CROSS-LEVELING	10 IMAGE	11 WITH	10 QUADRANT
10 WHICH	9 CIRCUIT	10 INSTALL	9 EYEPIECE
9 INFINITY	9 POWER	9 COMPUTER	9 RING
9 SERVICEABLE	9 SET	9 REPLACEMENT	9
8 WIRE TIGHT	8 DEFECTIVE	9 SIGHT	9
8 VOLTS	8 ADJUSTMENTS	8 KNOW	7
7 BATTERY	7 LEVEL	7 APPLY	7 ATTEMPT
7 SOURCE	7 WORKS HAFT	7	7 PANORAMIC
6 DC	6 DISASSEMBLE	6 ALL	6
6 GENERAL	6 HAS	6 FROM	6 FULLY
6	6 PIN	6 HIGH	6
6 SERVOMOTOR	6 STOP	6 PURPOSE	6 SCALE
6 TORQUE	6 UNIT	6 SYSTEM	6 TOOL
6 WORM	5 ARM	6	6 VDC
5 BETWEEN	5 CABLE	5 BALLISTICS	5 PEARING
5 ELECTRICAL	5 ELEVATION	5 CLEAN	5 DICTATOR
5 LIGHT	5 MACHINEGUN	5 INSURE	5 INTENSIFIER
5	5	5 MEASURE	5 MULTIMETER
5 RADIAL	5 REFLECT	5 PINS	5 PLUMBER
5 TILT	5 TURE	5 SWITCHING	5 SYNCHRONIZATION
5	5	5 USING	5 VIAL
4 COMPOUND	4 ADJUSTMENT	4 AMPLIFIER	4 ASSEMBLY
4 FIELD	4 CROSS-LEVEL	4 ENVIRONMENT	4
4 INSTALLED	4 FIG	4 GAIN	4 GUNNER'S
4 REMOTE	4	4	4 PANEL
4 SPRING	4 RHEOSTAT	4 SOLDER	4 SOLDERING
4	4 SUPPLY	4 SYNCHRONIZE	4
3 AIMING	3	3	3 ADAPTER
3 BENT	3 CIRCLE	3 AAAAV	3 COLLIMATE
3 COLLIMATOR	3 COMPLETE	3 COMPONENTS	3 COUNTERCLOCKWISE

COUNT4 WORD4

WDS WORD LISTING/DESCENDING FREQUENCY

COUNT2 WORD2

COUNT1 WORD1

3 DEFERRIVE	3 ELAIM	3 END	3 EXCESS
1 FFR	3 GUIDANCE	1 INDI	3 LENS
1 MAINTINANCE	1 MISSILE	1	1
1	1	1	1
1	1	1	1
1 OPEN	3 OUT	1	1 NEW
1 PURCH	3 RANGEFINDER	1 PLATE	1 POSITION
3 SEALING	3 TARGET	1 REASSEMBLE	1 REPAIRS
1 WRENCH	1	1 WIRE	3 WIRING
2 AFTER	2 ALCOHOL	2 ACCESS	2 ACJ
2 BALL	2 BROKEN	2 AS	2 BACKLASH
2 DEGREE	2 DIAPHRAGM	2 CHECK	2 CORRECT
2	2 ETHYL	2 DRYCLEANING	2 DUF
2 IF	2	2 FIN	2 FERM
2 INSPECT	2 INSPECTION	2 INDICATION	2
2 KNOBS	2	2	2 INTENSITY
2 LESSON	2 MAR	2	2 LEADS
2 NITROGEN	2 NOT	2 NAW	2 NEGATIVE
2 PAP	2 PECHAN	2 OPERATIONAL	2 OPTICAL
2 POSITIVE	2 PRESENT	2 PENCIL	2 PLA
2	2 SCREWS	2 PRI	2 QUA
2 SECURE	2 SERVO	2 SEAT	2
2 SURFACE	2 TAB	2 SOCKET	2 STEVENT
2 TERMINAL	2 TISSUES	2 TEC	2 TIENT
2 WHELF	2 ZERO	2 TROUBLESHOOT	2 TURN
1 ALIGNMENT	1 ACCURACY	1 ADJUSTABLE	1 AGAINST
1 AMP	1 ALIGNMENTS	1 ALSO	1 AMOUNT
1 BOARD	1 APPLYING	1	1 PARTICULARS
1 CAPACITOR	1 BRACKET	1 REEF	1 EV
1 CHECKS	1 CAUSE	1 CAVITY	1
1 CONNECTORS	1 CONNECT	1 CONNECTIONS	1 CONNECTOR
1 CRACKED	1 CONTINUITY	1 CONTROLS	1 COVER
1 EFFICIENCY	1 CRADLE	1 CROSSLEVEL	1 CUPOLA
1 DO	1 DIRECTLY	1 DIPTY	1 DISASSEMBLED
1 EXCESSIVE	1 DRIVER	1	1 FACTOR
1 FINAL	1 EXTENDING	1 EYE	1 FERM
1 FULL	1 FLYWHEEL	1 FOLLOWING	1 FOUR
1 HEADS	1 GAGE	1 GASKET	1
1 INFINITE	1	1 ILLUMINATION	1 INDEX
1	1 INSUFFICIENT	1 INSULATING	1 INTO
1 LOCKING	1 LOOK	1	1 KIT
1 MALADJUSTED	1 MAY	1 LOSS	1 MAKING
1 MOUNTED	1 MOVE	1 MICROMETER	1 MIL
1 OFF	1 PARTS	1 MOVEMENT	1
1 POTENTIOMETER	1 POTENTIOMETERS	1 PERFORMANCE	1 PLACE
1 PRESSURE	1 PUMPING	1 PRIOR	1 PRISM
1 RECEIVER	1 RECEPTACLE	1 QUALIFICATION	1 RANGE
1 RESISTANCE	1 RESISTOR	1 RELATED	1 REQUIRED
		1 RETAINING	1 R7

1 SECURITY
1 SHIELD
1 SHOOTERS
1 JAMMER
1 TENSION
1 TRACKER
1 UNDER

1 SEQUENTIAL
1 STATION
1 TANKS
1 VERKATH
1 TRANSMITTER
1 UNSHIELDER

1 STRIOUS
1 SUIVE
1 SWITCH
1 TASKS
1 TESTS
1 TRAVEL
1 WARNING

1 STOVOS
1 SHIELD
1 TECHNIQUES
1 TRAIL
1 TRIPS
1 WEATHER
1 WIPER

APPENDIX 8

ENGLISH LANGUAGE STRUCTURES AND LEXICON

The following list is included as an addition to the structural and lexical list. These structures and lexical items are very basic.
(See Section II for discussion.)

LIST OF LEXICAL AND STRUCTURAL ITEMS FOR ENGLISH LANGUAGE STRUCTURES

Sentences:

- | | |
|------------------|-------------------------|
| A. Declarative | statement |
| B. Interrogative | question |
| | 1. wh- questions |
| | 2. tag questions |
| | 3. yes/no questions |
| C. Imperative | command, polite request |
| D. Exclamatory | exclamation |

Sentence Complexity:

- | | |
|---------------------|---|
| A. Simple | one full subject and predicate |
| B. Compound | two or more independent clauses joined by: |
| | 1. punctuation |
| | 2. punctuation and conjunctive adverb |
| | 3. coordinate conjunction |
| C. Complex | one or more dependent clauses and an independent clause |
| D. Compound-Complex | two or more independent clauses and one or more dependent clauses |

Verbs:

- | | |
|----------------------------|---|
| A. Concord | subject-verb agreement |
| B. Transitive | takes an object |
| C. Intransitive | doesn't take an object |
| D. Copula | to be |
| E. Linking | connectors |
| F. Auxiliaries of tense | will, do, did |
| G. Auxiliaries of modality | should, ought to, must to, have to, have got to, able to, can, may, might, could, would |
| H. Tense | present, past |
| I. Aspect | perfect, progressive |

Verbal Forms:

- | | |
|-----------------------|---------------|
| A. Present Participle | active voice |
| B. Past Participle | passive voice |

Voice:

- | | |
|------------|----------------------------|
| A. Active | subject does action |
| B. Passive | subject does not do action |
| | 1. agent expressed |
| | 2. agent not expressed |

Nouns:

- | | |
|---------------|-----------|
| A. Singular | man, pen |
| B. Plural | men, pens |
| C. Count | chairs |
| D. Mass | flour |
| E. Possessive | soldier's |
| F. Collective | fish |

Adjectives:

- | | |
|-----------------------------|---------------------------|
| A. Predicative | The tank is green. |
| B. Attributive | The green tank is moving. |
| C. Degrees of comparison | |
| 1. regular | big, bigger |
| 2. irregular | worse, worst |
| D. Ordinal/Cardinal Numbers | first, one |

Adverbs:

- | | |
|-------------------|-------------------------|
| A. Time/Frequency | immediately, today, ago |
| B. Place/Position | here, there, everywhere |
| C. Manner | maybe, possibly |
| D. Negative | no, never |
| E. Comparison of | nearest, harder |
| F. Degree | thoroughly, completely |

Articles:

- | | |
|---------------|-----------|
| A. Definite | a, the |
| B. Indefinite | any, some |

Pronouns:

- | | |
|------------------|---------------------|
| A. Personal | you |
| B. Demonstrative | that |
| C. Indefinite | anybody, both, each |
| D. Reflexive | himself, yourself |
| E. Cases of | I, me, my, mine |
| F. Relative | who, whom, whose |
| G. Interrogative | who, which, what |

Conjunctions:

- | | |
|-----------------------|------------------------------|
| A. Coordinating | and, but, or, nor |
| B. Subordinating | because, if, as, that, after |
| C. Correlative | either, or |
| D. Conjunctive adverb | therefore, furthermore |

Prepositions:

A. Simple

- | | |
|----------------------------------|------------|
| 1. place | on, in |
| 2. time | in, at, on |
| 3. direction/motion | to |
| 4. manner/agent/
instrument | by, with |
| 5. measurement/
number amount | of |

B. Compound:

according to, because of, by means

Vocabulary:

words from 1100 through 2400 -
Elementary and Intermediate Phase of General
English materials

Special Expressions/Idioms

"knock it off" "can it, buddy"

Verb Combinations

two word verbs

